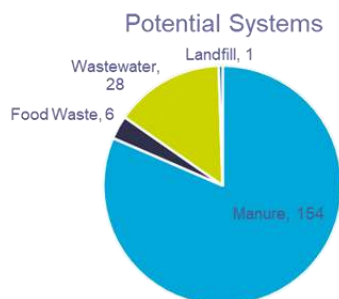


SOUTH DAKOTA

BIOGAS STATE PROFILE



South Dakota ranks **36th** out of 50 states for its biogas production potential. We estimate up to 9.11 billion cubic feet of renewable methane from biogas could be produced each year for energy, fuel, heat, and more!



THE POWER OF 14.24 BILLION CUFT OF BIOGAS:

ENERGY POTENTIAL:

- **763 million kWh** electricity and **297 million BTU/h** heat (engine); OR
- **1276 million kWh** electricity and **2127 million kWh** heat (fuel cell); OR
- **118.4 million gge** fuel; OR
- **67 million kWh** heat.

ECONOMIC GROWTH:

- Constructing 189 new systems would generate about...
- **\$566 million** in capital investments,
 - **4715** construction jobs, AND
 - **313** permanent jobs.

REDUCE GREENHOUSE GAS EMISSIONS EQUIVALENT TO:

- Growing **402 million** coniferous tree seedlings for 10 yrs, OR
- Replacing **55700** acres of forest, OR
- Removing **899 thousand** cars from the road.

BIOGAS SYSTEMS CAN RECYCLE:

Type	Production	Biogas
Manure (total)	6.3 million tons/yr	12.3 billion cuft/yr
<i>Broiler</i>	-	
<i>Dairy</i>	3.1 million tons/yr	
<i>Swine</i>	3 million tons/yr	
<i>Turkey</i>	157000 tons/yr	
Food Waste	0.28 million tons/yr	1.51 billion cuft/yr
Landfill	-	-
Wastewater Facility*	75 gallons/day	0.43 billion cuft/yr
Total Biogas	-	14.24 billion cuft/yr

*Wastewater facility greater than 1 MGD